

## Assembly, Utilities Promote Two Each To Foremen, May 1

Four promotions are added to Y-12's records for May 1 . . . two in Utilities Administration and two in Assembly. Charles J. Buchanan and Edwin E. Spradlen are utilities foremen; and Odis G. Carter and Arvil J. Crawford are named assembly foremen.

Charles J. Buchanan came to Y-12 November 1, 1965 . . . having been employed at K-25 before hiring in here. He worked at the Arnold Engineering Facilities at Tullahoma between his Y-12 and K-25 hirings.

A native of Mascot, Buchanan lives with his wife, the former Frances Strader, at 602 West Broadway, Lenoir City. They have a son, Jackie, with duPont in Martinsville, West Virginia . . . and are the proud grandparents of a grandson.

From 1940 until 1944 Buchanan was with the Aluminum Company of America, Alcoa.

He likes to fish and play golf . . . and says he does as poorly at one as with the other!

Edwin E. Spradlen is a native of Knoxville. He worked with the Royal Manufacturing Company there before joining the Air Force in 1951. Upon his discharge, he came here November 25, 1953.

The Spradlens live at 1200 Ponderosa Drive, Powell. Ed wears the famed black belt, making him a Karate expert. He trained under Harold Long in Knoxville. He fishes, hunts and says he is a retired bowler and golfer.

The Spradlens have three children (Mrs. Spradlen is the former Mary Milligan), Ed Jr., 13; Connie, 11 and Calvin, six . . . all in school at Powell.

Odis G. Carter, a native of Star City, Arkansas, lives at Route 3, Clinton.

He served in the U.S. Army from 1944 until 1946 . . . worked with Kaighin & Hughes here in Oak Ridge and with the Motors, Inc., and Sheet Metal Works in Jackson, Mississippi, before coming here April 22, 1954.

Mrs. Carter is the former Faye Hogue. The couple has two children, Sheila and Mark, both in school. They are active in the New Baptist Church, the PTA, and Lodge work. In spare time they like to camp and picnic.

Arvil J. Crawford, another new Assembly Foreman, is a native of Knoxville, and still lives there at 2117 Needham Drive, Knoxville. He came to Y-12 August 10, 1950, and was called into active duty in the Navy in 1951 . . . and served until 1953.

His wife, the former Kathleen Hester, has given him two children Victor, in Northwest Junior High, and Tina, in Norwood Elementary School.

The Crawfords take an active part in their church. Mostly, Crawford says, he likes to fish, or just 'take it easy' for recreation.

### ORAU New Library Hours Are Listed

The Oak Ridge Associated Universities announced new hours for its Library on Badger Avenue.

The hours are now as follows: Monday through Thursday, 8 a.m. to 4:30 p.m. and 6:30 to 9:30 p.m.; Friday, 8 a.m. to 4:30 p.m.; Saturday, 8 a.m. to 1 p.m.



Charles J. Buchanan  
6-14 400



Edwin E. Spradlen



Odis G. Carter



Arvil J. Crawford

## Chemical Group Is Seeking Members

The Analytical Group, East Tennessee Section, American Society, has begun its membership drive for 1969. One need not be a member of the ACS to become affiliated with the local group, nor is membership limited to analytical chemists. Anyone interested in participating in the Group's activities is invited to become a member. Last year the group had 144 members.

This year's drive is being coordinated by membership chairman Dante Costanzo, ORNL's 4500 Building Analytical Chemistry Division. Other members of the committee now accepting dues are Dorothea Randolph, ORGDP, Building K-1004-C; and Margaret Eager, Y-12, Building 9995. Dues are only \$2.

The Analytical Group has been responsible for bringing many fine speakers to this area. Refreshments are also provided at the meetings. The new officers of the group are: Joe Stewart, Y-12, chairman; W. D. Shults, chairman elect, ORNL; and Elaine Hall, secretary-treasurer, Y-12. Other committee chairmen are: Gerald Goldstein, ORNL, program; Gerald Goldberg, ORNL, publicity; and Ralph Kent, Y-12, social.

May's meeting is set for Tuesday, May 27. Dr. Norman Anderson will speak on "Development of Rapid Analyzers."

## ASCET Meeting Set Next Week

The Oak Ridge-Knoxville chapter of the American Society of Certified Engineering Technicians announces its May meeting.

The meet is set next week, Thursday, May 22, at the Oak Ridge Country Club. A roast beef dinner for \$3.25 a person is set at 7 p.m. B. H. Montgomery, extension 3-7028, is in charge of reservations. His Oak Ridge telephone number is 483-7732.

T. G. Chapman, Oak Ridge National Laboratory, will discuss "Astronaut Training for the Apollo Moon Program." For the past year Chapman has been working on the Apollo Program and is responsible for the sampling devices that will be used by the astronauts on the moon. He hopes to show prototypes of these devices at tomorrow's meeting, and will also show several short movies of astronauts working under simulated moon conditions.

All ASCET members and their families are urged to attend this interesting meeting.

### AH . . . SPRING

Spring is the season when boys try to act like men, and the girls are glad they do!

### SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
170 Days Or  
5,429,000 Man-Hours  
(Unofficial Estimate)  
Through May 11  
Without A Disabling Injury  
SAFETY AT HOME,  
AT WORK, AT PLAY

## UCC Sales Set New Record For 1969 First Quarter Stockholders Hear At Meet

Union Carbide Corporation's results for the first quarter of this year were substantially improved over a year ago, Chairman Birny Mason, Jr., told stockholders at the annual meeting held recently at Hunter College. President Kenneth Rush, in reporting sales and earnings for the period, indicated that appreciable gains are expected for the year as a whole.

The corporation's worldwide sales for the first three months totaled \$680.9 million, a record for any first quarter. They were 8 per cent over 1968 first-quarter sales of \$629.1 million. Earnings were \$50.8 million, or 84 cents a share, an increase of 28 per cent over the \$39.8 million and 66 cents a share earned in the comparable period a year ago. The 1969 figure includes a nonrecurring gain of 9 cents a share resulting from the sale of Neisler Laboratories, Inc.

### Stockholders Vote on Change in Capital Stock

Among the resolutions voted upon at the stockholders' meeting was a proposal to change the number of authorized shares of capital stock from 72 million to 100 million, which would include 10 million shares of preferred stock, to give the corporation greater financial flexibility. Another resolution provides for amendments to the retirement program for employees, which the board of directors feels are essential, in light of general developments in industry, in order for the corporation to remain competitive in the hiring and retention of outstanding employees.

### Effectiveness of Profit Improvement Programs Cited

In his review of operations, Rush told of progress made as a result of some of the programs instituted to improve the corporation's profit picture. He first identified two main problem areas that affected operations in 1968—abnormally high costs associated with the start-up of new facilities and price declines for some of the major product lines. Costs for the Taft, Louisiana, petrochemicals complex, alone, were said to have amounted to the equivalent of 26 cents a share after taxes in 1968. Price drops in low-density polyethylene reduced earnings about 35 cents a share, and lower prices for industrial gases accounted for a further drop of five cents a share.

Rush mentioned that one of the objectives of the profit improvement programs has been to increase sales in order to utilize production facilities more fully and profitably, and also to help offset the high costs resulting from expansion programs. He said that considerable progress had been made in this effort last year and is continuing this year, despite the price decreases mentioned.

Rigorous control over all costs—particularly to effect reductions in overhead expenses—has been another objective. It was pointed out that much is being accomplished in this regard even though this objective is rather difficult to attain in an inflationary economy and at a time when the corporation's sales volume is increasing substantially.

Some measure of success is also being achieved in improving Union Carbide's overall pricing position, Rush indicated. Here the effort has been not only to attempt to arrest uneconomic price declines, but also in some instances to reduce prices where such action will result in expanding markets and promoting long-term growth.

Several examples were cited of progress made in solving start-up problems and in improving the productivity of plant facilities, which Mr. Rush said was the fourth main objective of the corporation's programs. Two of the most troublesome locations have been Taft, Louisiana, and Antwerp, Belgium, where Union Carbide has been building major production complexes. Operations at Taft, he said, are approaching normal; and recently expanded polyethylene operations at Antwerp, while still suffering from a shortage of ethylene raw material, are now functioning smoothly.

At Antwerp, one of the largest ethylene oxide units in Europe, with a capacity of 250 million pounds per year, was recently started up. The largest ethylene oxide unit in the world, just brought on-stream at Seadrift, Texas, is now producing at a rate in excess of its design capacity of 350 million pounds per year. Ethylene oxide is an intermediate in the manufacture of a host of products, including Union Carbide's Prestone anti-freeze.

Another large facility mentioned as having recently been started up successfully is a computerized alkylamines plant at Taft, which is capable of producing about 100 million pounds per year of a variety of amines for use in such products as herbicides, rubber chemicals, and pharmaceuticals.



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

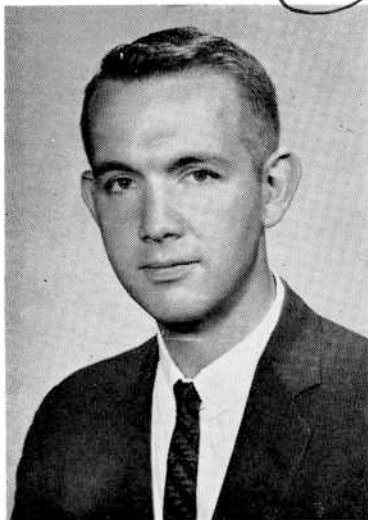
JAMES A. YOUNG Editor

Member Appalachian  
Industrial  
Editor's  
Association

American Association Industrial Editors

OFFICE  
Post Office Box Y  
Oak Ridge, Tenn. 37830  
Telephone 3-7100

## Y-12er Installed Head Of TSPE



Thomas E. Douglass

In its April meeting, the Oak Ridge Chapter of the Tennessee Society of Professional Engineers installed Tom E. Douglass as president. The monthly meeting took place Monday, April 21.

Additional Y-12ers serving as officers includes F. S. Patton who became first vice president; and Rolf C. Rosenvinge second vice president. Other officers were J. C. Salyers, secretary; Raymond E. Cooper, treasurer; and W. C. Tunnell and John M. Morgan, chapter directors. Past President Olin A. Kelly became a TSPE director.

Morgan is with the Atomic Energy Commission; Salyers and Cooper with ORGDP; and Kelly and Tunnell are with the Oak Ridge National Laboratory.



Riders wanted from West Haven, Cumberland Estates areas, Knoxville, to any portal, straight day. Fred Walker, plant phone 3-5018, home phone Knoxville 523-9672.

Ride wanted from Hillside Road, Oak Ridge, to West Portal, straight day. Arnold Agee, plant phone 3-5026, home phone Oak Ridge 582-2951 (after 5 p.m.).

Ride wanted from North Purdue Avenue, Oak Ridge, to North Portal, straight day. Jim Riikola, plant phone 3-5958, home phone Oak Ridge 483-4202.

Car pool members wanted from Norwood and Cherokee Ridge areas, Knoxville, to Central Portal, straight day. Doug Frazier, plant phone 3-7287, home phone Knoxville 689-5589; or Fred Clark, 3-5101 . . . 947-1967.

## Y-12ers Give Technical Papers

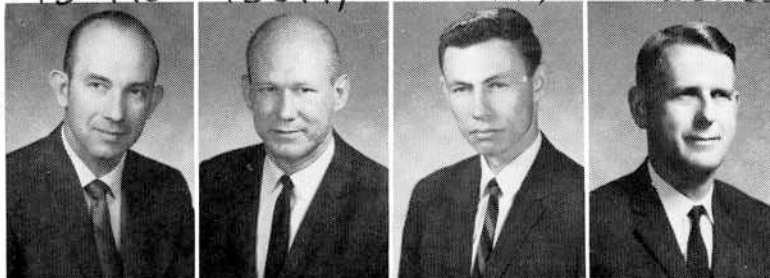


Baldwin  
130440

Steger  
130441

Whitten  
130444

Alvey  
120203



Williams

Richards

Thompson

Schede

Machine tool development activities conducted at Y-12 were reported at the 1969 Engineering Conference and Tool Exposition sponsored by the American Society of Tool and Manufacturing Engineers. The conference was held in Chicago, May 5 through 9.

R. L. Williams, a Y-12 development engineer, chaired a session on "Precision Machining." In addition, five technical papers prepared by Y-12 authors were presented at the meeting. The papers were as follows:

"Production Application of Advanced Technology in Precision Numerical Control Machining," by J. B. Richards, discussed the modification of numerically controlled turning machines to improve and repeatability under production conditions.

"Built-In Instrumentation Can be Used to Upgrade Machine Tools," by R. W. Schede and C. H. Thompson, discussed methods of eliminating machine tool errors

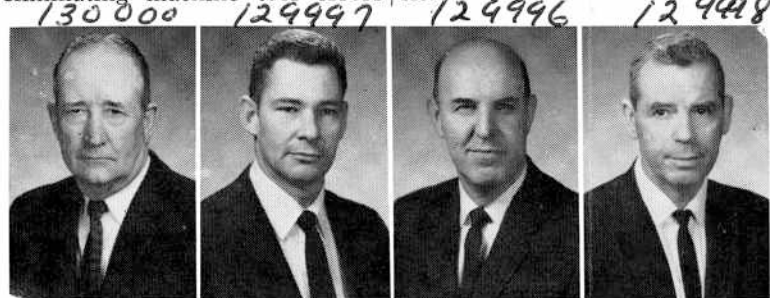
caused by thermal effects, lathe spindle growth and irregular machine movement.

"Precision Machining with Diamond Tools," by R. R. Baldwin and P. J. Steger, described the Y-12 experience of using special diamond tools to cut materials such as aluminum, copper, and nickel to an accuracy of a few millionths of an inch.

"Laser Interferometric and Geometric Alignment," by L. G. Whitten, Baldwin and Schede, discussed laser alignment techniques associated with length and geometry measurements.

"Dimensional Inspection at the Oak Ridge Y-12 Plant," by H. E. Alvey, described various dimensional inspection machines used in certifying the dimensional accuracy of products.

Y-12 is one of the four facilities operated by the Nuclear Division, Union Carbide Corporation, for the U.S. Atomic Energy Commission.



Estes

Huber

Scott

Turner

Two technical papers by Y-12 welding engineers were presented at the 50th Annual American

Welding Society meeting in Philadelphia, Pennsylvania. The meeting was held April 28 through May 2.

The papers are "Beryllium Welding and Brazing," by C.

Bradburn

L. Estes, R. A. Huber, D. G. Scott and P. W. Turner, and "Multipass Electron Beam Welding for Controlled Penetration Depth," by Huber, Turner and E. H. Bradburn.

The paper on beryllium welding

### RIDES . . . RIDES . . . RIDES

Beginning May 19, some 30 TAT trainees willing to share expenses, need rides to East Portal, from Charleston Hall. Monday thru Friday, straight days. Contact Jack Fritts, extension 3-5968.

Moderation is the key to lasting enjoyment.

and brazing describes the developmental work involving the fabrication of beryllium.

The paper on multipass electron beam welding discusses the merits of this technique in performing welds on structures that will mar joints or cause thermal damage to adjacent materials.

The development work described in the papers was performed at Y-12.

## Navy Promotion For DeHart Son

The parents of Jerald W. DeHart were pleased to hear of the serviceman's promotion. Jerald was made Engineman Third Class in the Navy, stationed at the U.S. Naval Support Activity Detachment, at Qui Nhon, in the Republic of Vietnam.

Jerry, a 1967 graduate of Powell High School, has been in the Navy two years. He took boot training at San Diego and served on the U.S.S. Ticonderoga, a carrier, for eight months.

His father C. J. DeHart is in Y-12's Tool Grinding Department. The DeHarts live at Route 6,

## May - Mental Health Month

The American Medical Association has called mental illness "the nation's most pressing health problem." Here are the startling facts to bear this out:

Mental illness strikes one person in every ten—a total 20,000,000 Americans — children teenagers, young adults, elderly people.

There are more people in hospitals with mental illness, at any one time, than with all other diseases combined, including cancer, heart disease, Tuberculosis, and every other killing and crippling disease.

The National Association for Mental Health, a national voluntary citizens' organization, is fighting mental illness and helping the millions of victims and their families. The Oak Ridge Regional Mental Health Association is fighting mental illness through service and social action.

Its service programs include information and referral services to direct the patient to necessary treatment, volunteer services for mental hospital patients and rehabilitation services for the patient on his recovery.

Through its social action program, the Mental Health Association works to improve conditions in the state mental hospitals so that all patients can get the latest psychiatric treatment. It also works to bring mental health services into the community through the Oak Ridge Mental Health Center, to the patient can be treated near home and family.

Your Mental Health Association needs the participation and support of every citizen. Please join and support your association this month — Mental Health Month. The address is P.O. Box 169, Oak Ridge, Tennessee.

## New Sales Records Set . . .

Continued from Page 1

The performance of the corporation's consumer and related products group, which had a 13 per cent increase in sales in 1968, was cited as an example of the results of efforts to concentrate on growth areas. It was pointed out that here the emphasis has been on specific consumer items where Union Carbide's technology provides an advantage—such as batteries, antifreeze, and Glad plastic products.

### Worldwide Expansion Is Continuing

Although all expansion programs are being carefully reviewed to make sure that they have the potential to make a substantial contribution to Union Carbide's growth, Rush said that this does not mean that the corporation is reticent about taking on new opportunities. He cited a chemicals complex in Puerto Rico that will cost over \$200 million, for which the site is now being prepared. Expansion of many other production facilities around the world is also continuing. Total worldwide expenditures for new construction in 1969 are expected to be slightly higher than last year, in the neighborhood of \$350 million.

### Stockholders See Fashion Presentation

Introducing a presentation showing some of today's fashions made possible by Union Carbide products, Chairman Birny Mason Jr., pointed out that the corporation provides some 200 chemical products to the textile industry alone. The corporation's interests are concerned with many aspects of the multi-billion-dollar fashion industry—from the raw materials and drawing of fibers, through the intermediates for coatings and finishes, to the fabrics, fashions, and fashion accessories. Among the corporation products highlighted in the live fashion show presented to stockholders were vinyl resin products—including the new Vileau fabrics and Krene plastic film; glyoxal for permanent-press fashions; Dynel textile fibers for both coats and hairpiece accessories; Unel spandex and nylon; urethane chemicals for knit bonding and laminating fabrics; glutaraldehyde to add softness and washability to leather; Tergitol surfactants used in making disposable fashions; ethylene glycol, an essential ingredient of polyester fibers; and Quintessa jewelry and Linde Stars.

## Dabbs Leads Physics Division Seminar May 15

J. W. T. Dabbs, Oak Ridge National Laboratory's Physics Division, will lead this week's seminar: "Fission of Oriented Nuclei at Saclay and ORELA."

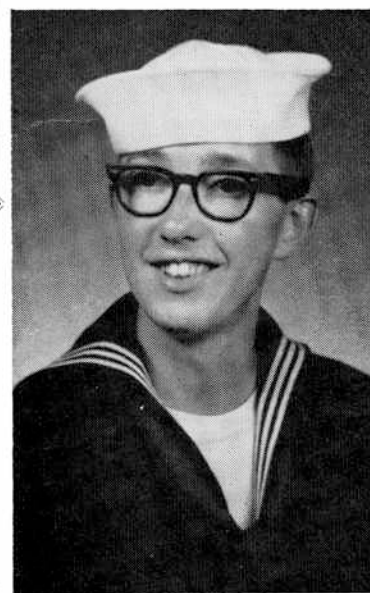
The seminar is slated for tomorrow, Thursday, May 15, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

### SUGGESTION BOX

The young plant manager made quite a product of his suggestion awards program. After weeks only one suggestion appeared, but the executive decided to make a production out of answering the suggestion. He called the entire force in. When the band struck up the national anthem, and the employees stood at attention, the manager opened the suggestion.

It read: DROP DEAD!

There is no security on this earth; there is only opportunity.



EM-3/c Jerald W. DeHart

Powell, with their two daughters, Deborah and Becky Jo. They also have an older son, Harry DeHart, living in Indiana.





**NOBLES BILLY D. MARTIN**, Chairman of the Shrine Paper Sale for Anderson County; **Herman R. Queener** (former Y-12er), president, Clinch Valley Shrine Club; **Hubert Dick** and **Boyd Crowder** complete plans for the annual Shrine paper sale planned for this week.

## Shrine Paper Sale This Week

The Clinch Valley Shrine Club has completed plans for its participation in Kerbela Temple's Annual Shrine paper sale to be conducted this week. Noble Billy D. Martin, vice president, has been appointed chairman of the sale in Anderson County.

Noble Boyd Crowder, Isotopes, will be working in the Clinton area, and Wray Hawkins, Jim Beeman (Fabrication), and Hubert Dick (Inspection) will be in Oak Ridge.

Kerbela Temple originated the paper sale 20 years ago and has raised over \$1,150,000 at a cost of less than five per cent, which goes for supplies only. Kerbela has do-

nated more to the Crippled Children Hospitals than any of the other 170 temples. Last year it raised \$137,175; \$7,310 of this in Anderson County!

Since the first Shrine Crippled Children Hosuital was opened in September, 1922, in Shreveport, Louisiana, over 2,100,000 children have been treated. The Shriners now have 19 orthopedic hospitals and three burn institutes with an operating cost of approximately \$12,000,00 a year. The average stay per child is 85 days. There is no charge at any hospital, and any child, regardless of race, creed or color, whose parents cannot afford to pay, is eligible.

## Driver Error Is Cited Major Factor

While more than 40 percent of driver-error-caused deaths on America's highways in 1958 were blamed on excessive speed, only 20 percent of the injuries were attributed to this activity. The second major cause of fatalities blamed on actions of drivers was reckless driving. It figured in nearly 15 percent of the deaths and more than 39 percent of the injuries.

The conclusion, voiced many times before, according to a spokesman for The Travelers Insurance Companies, is "speed kills."

The statistics are contained in the annual booklet an highway accident data published by The Travelers. Figures are supplied by state motor vehicle departments.

Other major factors involving actions of drivers resulting in deaths and injuries include driving on the wrong side of the road, not having the right-of-way, and driving off the roadway.

In the ten-year period from 1959 through 1968, young driver involvement in fatal accidents increased more than 20 percent. Last year, precisely one-third of people at the wheel when accidental death occurred in car crashes were 25 years or younger. The implication of immaturity expressed by speed is inescapable, said The Travelers spokesman, "under-25 drivers amount to only one-fifth of the driver total but they are in the terrible middle of one-third of all fatal auto crashes."

The 1968 traffic death toll reached 55,300, 3,000 more than were killed in 1967. Injuries in 1968 rose to 4,400,000 from 4,200,000 in 1967.

## Ed Sise Fires Ace At SW Point

Ta-Ta-Ta-Ta-Ta or however a trumpet roll is spelled! Ed Sise, Y-12 golfer, entered the sacred halls of hole-in-ones on Saturday, May 3.

The scene was the Southwest Point golf course, on Watts Bar Lake, near Kingston. (Y-12ers play the course Saturday, June 28.)

Ed hit hole number four . . . a par three, 190-yard hole. He was using a Bobby Nicklas number four wood . . . and struck a Spalding Air Flyte ball.

Son Bill and another witness came in with Ed's celebration!

### LAP-SHOULDER BELT

The lap-shoulder belt, as designed by Detroit auto makers, consists of two separate belts that fasten into two separate buckles. Worn properly, the lap belt should be fastened snugly like the old seat belt, low across the hips. The shoulder belt should be worn loose enough so that a fist can be placed between the belt and the user's chest.

By law, all cars manufactured after January 1, this year, had lap-shoulder belts already installed.

### RIDES . . . RIDES . . . RIDES

Beginning May 19, some 30 TAT trainees willing to share expenses, need rides to East Portal, from Charleston Hall. Monday thru Friday, straight days. Contact Jack Fritts, extension 3-5968.

## Black Ghetto Play At Playhouse

Lorraine Hansberry's beautifully moving drama "A Raisin in the Sun" will be the Oak Ridge Studio Theatre production for the Spring season. The nearly all Negro cast will perform the drama May 16-19, at the Playhouse in Jackson Square.

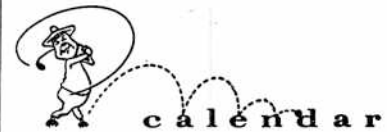
The 1959 Broadway hit was awarded the New York Drama Critics Circle Award and its playwright was named "the most promising" of a season by a poll of New York drama critics. Claudia MacNeil, from the stage production, and Sidney Poitier starred in the moving cinema version of the play.

Sophonra Davis, Harriman, will appear in the leading role of "Mama." She is a key punch operator at the Oak Ridge Gaseous Diffusion Plant. This is her first major role, although she has played in high school productions and has directed plays for her church.

Charlie Blake appears in the role of Karl Lindner, the only white member of the cast. Blake is Union Carbide Corporation's Equal Employment Opportunity Coordinator here. Ronald Lee McCann plays Bobo, and is employed as a programmer's aide. Rudolph Long plays George Murcheson. He is employed as a machinist and owns the L&W Package Store.

Studio Theatre performances are free to those holding season tickets and only a minimum fee is charged for non-members. Tickets may be picked up or reserved by telephone, on number 483-1224, at the Playhouse box office, beginning today, between 10 a.m. and 5:30 p.m. Friday and Saturday, they will be available between 10 a.m. and showtime; Sunday, from 7 until 9 p.m., and Monday from 10 a.m. until 9 p.m.

## Recreation



### Saturday, May 17

**HI POWER RIFLE LEAGUE:** 9 a.m. Oak Ridge Sportsmen's Association range.

**GOLF TOURNAMENT:** Tee-Off Begins 6-6:30 a.m. Wallace Hills, Maryville.

### Sunday, May 18

**SKEET TOURNAMENT:** 1 p.m. Oak Ridge Sportsmen's Association range.

### Monday, May 19

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. 69ers vs. Buccaneers; A. Wingers vs. K-25 Gashouse Gang; Colts vs. Big Shops.

**PHYSICAL FITNESS:** (For Women): 7:30 p.m., Oak Ridge High School Girls' Gym.

### Tuesday, May 20

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Beta Four Astros vs. All Stars; J-Birds vs. Go Go Gophers; Braves vs. Beta 2 Miners.

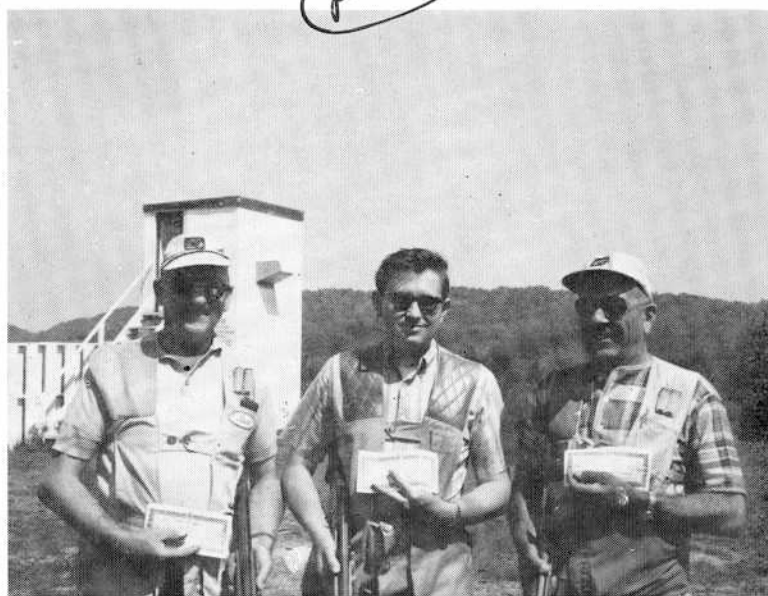
**WHITTLES GOLF LEAGUE:** After work. Whittle Springs Golf Course, Knoxville.

### Thursday, May 22

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. NC Squad vs. Eagles; Bat Boys vs. Yankees; Show Ups vs. Y-12 Snakes.

**SOUTHWEST POINT GOLF LEAGUE:** After work. Southwest Point Golf Course, Kingston.

No one can make you feel inferior without your consent.



**BERT SEARLES, DWAYNE FRY** and **Charlie Asmanes** were the April winners in the Skeet Tournament. Skeeters fire again Sunday, May 18, at 1 p.m. at the Oak Ridge Sportsmen's Association.

## 18-Team Slo-Pitch Gets Underway With 15 Teams Playing For Y-12

The big 18-team Slo-Pitch League pulled into gear last week, opening play Monday, May 5. They play Monday, Tuesday and Thursday night . . . each team playing once a week. There are 15 Y-12 teams, three from K-25 entered in the competition.

The opening guns were fired as the Snakes trimmed the Bat Boys 14 to 6, the second inning being the big one for the Snakes. On the winning squad it was Charles Holland, Horace Moorman, Bill Maddox and Phil Mason all with long homers.

The Eagles made no-shows out of the Show-Ups in Monday's second game . . . 21 to 1.

Don Ferree poled two homers . . . Dave Hendrickson, Kary Mauldin and Jim Thompson all one apiece. Hendrickson and Hugh Richards earned big triples.

The Yankees closed Monday's action by downing the N.C. Squad 22 to 10. Both teams opened like a house a-fire . . . scoring 11 and 6 respectively in the first inning.

Doug Kelly, Billy Patrick, Don Stinnett all earned big homers . . . Mack Wright took two for the Yanks. It was Dave Post with one on the losing side.

Tuesday pitted the Colts against the Gashouse Gang . . . both K-25 teams. The Gang gained the victory 13 to 3. Sam Woodfin and Harold Conner took homers for two of the Colts' three points. Ron McElhaney pegged a big homer for the winning Gang.

The 69ers took the Gashouse Gang . . . in their doubleheader 12 to 10.

Horace Whittlesey and Ronnie Norris nailed homers for the winning 69ers. McElhaney and Bruce Marshall did likewise for the losers.

The Buccaneers earned a forfeit win from the A-Wingers.

Thursday saw the Go Go Gophers get by the Beta 2 Miners 24 to 11. Fred Felte, Bill Thompson and Mike Gregg socked out four-baggers for the winning team . . . as the Gophers gained 24 runs from 24 hits.

On the losing squad it was Jack Davis with a four-bagger.

The Braves beat the Beta 4 Astros easily, via the forfeit route.

The curtain dropped on the week's action, as the All Stars slipped by the J. Birds 21 to 20.

The game rocked along fairly evenly to the fourth inning . . . 11 to 10 in favor of the J-Birds . . . then in the fifth it exploded, the All Stars scored 10 . . . and the Birds almost made it back in

the sixth . . . scoring nine, and coming within one point of tying which would have meant an extra inning.

On the All Star team there was Dick Graham, Iver Jeter, Bobby Belt and Lewis Alley with long homers . . . and on the losing team it was Ron Rather.

### Initial League Standings:

Team	W	L
Y-12 Snakes	1	0
Eagles	1	0
Yankees	1	0
69ers	1	0
Buccaneers	1	0
Go Go Gophers	1	0
All Stars	1	0
Braves	1	0
Gashouse Gang, K-25	1	1
Bat Boys	0	1
Show-Ups	0	1
N.C. Squad	0	1
Colts, K-25	0	1
A Wingers	0	1
Beta 2 Miners	0	1
J Birds, K-25	0	1
Beta 4 Astros	0	1
Big Shops	0	0

## Accident-Prone Persons Can Be Easily Detected

Twenty-five per cent of all people are accident prone and can be detected, according to a 65-year-old professor who has spent most of his life looking for people who have accidents. Dr. Hans Hans, Transylvania College, Lexington, Kentucky, picks out those who are prone by administering deceptively simple tests which pinpoint a person's safety margin. In tests with driving simulators he asks the blindfolded subjects to approach a cliff coming to a dead stop. In a laboratory test, a person must press a button when alternate light flashes and bell signals are mixed. In others a subject is asked to point out specific numbers from one to 100 in a five-minute period and to add long columns of figures for an hour. The tests reveal the effects of fatigue, strain and boredom and the relationship of being accident prone. Dr. Hahn's ultimate goal is to develop therapy for the accident prone. But it may not be easy, since he believes that the tendency toward accidents "is something you are born with and it may be that you can never get rid of it."

### A GOOD TIME

Spring Clean-Up time is a good time to review your family's plan for emergency escape in case of fire. If you don't have a plan, make one right away: and if you have one, hold some practice drills for everyone in the house, urges the National Fire Protection Association.





**FOOD FOR THE FUTURE** . . . Experiments to increase grain production as part of a scientific and agricultural revolution to help eliminate future worldwide hunger will be seen in "The Food Revolution" episode on "The 21st Century" Sunday, May 18, at 6 p.m., EDT, in color on the CBS Television Network. The program is seen locally on WBIR-TV, Channel 10. Seen above, the researcher in the Philippines studies the effects of insects on rice varieties which are isolated in cylinders. CBS News Correspondent Walter Cronkite is principal reporter for the series which continues through the spring and summer months, sponsored by Union Carbide Corporation.

## 'Food Revolution' Food For Thought On 21st Century TV Program Sunday

The possibility of man's achieving sufficient scientific and agricultural capability to eliminate worldwide hunger will be the topic examined in "The 21st Century" episode, "The Food Revolution," Sunday, May 18, at 6 p.m., EDT, in color on the CBS Television Network. The program is carried locally by WBIR-TV, Channel 10.

CBS News Correspondent Walter Cronkite is principal reporter for the series which continues to be televised during the spring months sponsored in the public interest by Union Carbide Corporation.

The broadcast will report on experimental programs scientists are conducting to increase the food supply in the major areas of agriculture, test tube farming, and increased land efficiency. Studies to control the process by which plants grow will also be seen.

As a result of this agricultural revolution, Cronkite comments, man may be able to feed himself in the twenty-first century when the population will double.

"But the real question is whether the world will use this technology for the benefit of all people," he states.

ple," he states.

"The Food Revolution" was written by Judy Towers. Fred Warshofsky is science editor for "The 21st Century," and Isaac Kleinerman is producer with Burton Benjamin as executive producer.

"The Food Revolution" . . . Sunday, over WBIR-TV, Channel 10, at 6 p.m.

## New Printing Plate Is Developed By Carbide

A revolutionary new "Hylox" plastic printing plate system has been developed by Union Carbide. The system, introduced in connection with the American Newspaper Publishers Association Meeting in New York, makes use of a modified polysulfone matrix resin and a modified polypropylene plate resin. In the unique system, a thermoplastic matrix is made from which can be molded multiple numbers of thermoplastic printing plates. Printing quality is equal to or better than the finest electrotypes used for high quality magazine reproduction. Time cycles are unmatched by any known plastic fabricating method. The corporation is working with the Sta-Hi Corporation on the new system. Sta-Hi will provide the necessary hardware and will market the system. A field test is being conducted on the system at the New York Daily News.



The lush month of May marks more important dates for Y-12ers, celebrating landmarks with Union Carbide Corporation. Congratulations.

### 25 YEARS

**Charles E. Fritts**, Stores Department, May 15.  
**James P. Dillard**, General Machine Shop, May 16.  
**Paul H. Trebilcox**, Special Services, May 17.  
**Katherine A. Sells**, Laboratory Development, May 17.  
**Gustave J. Angele**, Engineering Mechanics, May 17.  
**Betty J. Butler**, Medical Department, May 19.  
**Arthur L. McGinnis**, Area Five Maintenance, May 19.  
**Merritt C. Wiest**, Product Engineering, May 20.

### 15 YEARS

**Fred L. Clark**, Graphics and Public Information, May 10.  
**Richard R. Feron**, Metallurgical Development, May 10.  
**Hansel Whaley**, 9215 Rolling, May 10.  
**Robert H. Hall**, A-2 Shops, 9212, May 10.  
**Glenn W. Howdyshe**, General Field Shops, May 10.  
**Otey B. Cottrell**, General Can Fabrication Shop, May 11.  
**Robert M. Hetzler**, H-2 and F-Area Shops, May 12.  
**Dillard A. Davis**, M-Wing Shop, May 12.  
**Vernon D. Cooper**, H-2 and F-Area Shops, May 12.  
**Charles Baxter**, Tool Grinding, May 12.  
**Carl W. Nelson**, 9766 Machine Shop, May 12.  
**Jack D. Cox**, H-2 and F-Area Shops, May 12.  
**Dillard H. Jenkins**, Beta Four Heavy Machine Shop, May 12.  
**Aron Smith**, Dimensional Inspection, May 13.  
**Claude Allen**, M-Wing Shop, May 13.  
**Milburn J. Kilgore**, Tool Grinding, May 13.  
**James W. Halsey**, Dimensional Inspection, May 13.  
**Joseph L. Waddell**, Dimensional Inspection, May 13.  
**Lamar R. Benker**, Beta Four Heavy Machine Shop, May 13.  
**Robert L. Robertson**, Quality Assurance, May 13.  
**James L. Billings**, 9215 Rolling, May 13.  
**Edgar W. Phelps Jr.**, General Machine Shop, May 13.  
**Lynden W. Moneymaker**, 9215 Rolling, May 13.  
**Henry R. Mullins**, G-3 Processing, May 14.  
**James A. Williams**, Beta Two Shop, May 16.  
**A. L. Todd Damron**, Process Maintenance, May 16.  
**Joseph J. Campbell Jr.**, Alpha Five Machine Shop, May 16.  
**James D. Franklin**, Buildings, Grounds and Maintenance Shops, May 17.  
**Floyd C. Wheeler**, Machine Maintenance, May 17.  
**Robert K. Miller**, Beta Four Forming, May 17.  
**Albert S. Ruskowski**, General Machine Shop, May 17.  
**Charles E. Gage**, Gage Certification Laboratory, May 17.  
**George A. Grider**, M-Wing Shop, May 17.  
**James P. Powers**, Electrical Department, May 17.

### 10 YEARS

**Florence C. Simpson**, Technical Administration, May 4.  
**Dorothy M. Woullard**, Technical Administration, May 12.



## UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

RETURN REQUESTED

(Do Not Forward—Return Postage Guaranteed)

BULK RATE  
 U.S. Postage  
**PAID**  
 Oak Ridge, Tenn.  
 Permit No. 71



**BOSS OF THE YEAR** C. E. Larson receives congratulations from his secretary Marigrace Kirstowsky, as he was named for the honor by the local National Secretaries Association. The Nuclear Division president received his statuette and certificate from Judge Allen Kidwell, Boss of the Year for 1968.

## Secretaries Tag Nuclear Division President Larson Boss-Of-The-Year

Dr. C. E. Larson, president of the Nuclear Division, Union Carbide Corporation, was named Boss of the Year at a National Secretaries Association Bosses' Open House recently at the Oak Ridge Country Club. Outgoing Boss of the Year, Judge Allen Kidwell, presented the award . . . a statuette and certificate, to Larson.

As president of the Nuclear Division, Larson directs the operations of the Oak Ridge National Laboratory, Y-12, and the gaseous diffusion plants in Oak Ridge and Paducah, Kentucky. He is a staunch supporter of the educational programs of NSA, as is his secretary, Marigrace Kirstowsky, CPS.

Larson, a native of Minnesota, received his BS degree from the University of Minnesota, and PhD from the University of California. He is a Fellow and member of the board of the American Nuclear Society, a Fellow of the American Institute of Chemists; member of the board of directors of Oak Ridge Associated Universities, and a member of the American Chemical Society, the Society of Experimental Biology and Medicine, American Association for the Advancement of Science, Phi Lambda Upsilon and Sigma Xi. He was recently elected as an "Eminent Engineer" in the U.T. Gamma Chapter of Tau Beta Pi, national engineering society. He, his wife, Jane, and their children reside at 916 West Outer Drive, Oak Ridge.

As part of the activities during Secretaries Week, which is observed internationally the last week in April, NSA honors the most important half of the man-

agement team, the bosses. The open house was attended by some 200 Oak Ridge bosses, wives, and secretaries.

The recognition of all the bosses is symbolized by the selection of one boss to serve as the Boss of the Year. In making the selection, a special committee considers, in addition to personal attributes, the accomplishments and general standing of the boss in his profession and community, his support of NSA, and his secretary's support of NSA and dedication to the elevation of her profession.

"Miss Robotary," the association's traveling robot secretary from Kansas City, Missouri, entertained at the event.

## Giant Tax Take Might Cause California E-Quake

Those purveyors of doom who were predicting that California would slide into the Pacific Ocean were probably thinking of the heavy taxes the state levies. California ranks 12th in the free world, after the United States, West Germany, France, England, Italy, Japan, Canada, India, Sweden, Brazil and the Netherlands in its cost of government. There are 1.3 million government employees in the State of California, including state employees, county, city and school district employees as well as federal employees. This is more than many nations have on their payrolls, and California doesn't even have a foreign policy!

Self confidence is the first requisite to great undertakings.

## RIDES . . . RIDES . . . RIDES

Beginning May 19, some 30 TAT trainees willing to share expenses, need rides to East Portal, from Charleston Hall. Monday thru Friday, straight days. Contact Jack Fritts, extension 3-5968.